

A Madan

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Professional Summary

Results-driven Computer Science Engineering student with hands-on experience in full-stack development, mobile application development, and AI-powered systems. Skilled in React, Node.js, MongoDB, and RESTful APIs, with experience building scalable and production-ready applications. Strong foundation in Data Structures, Algorithms, Operating Systems, and Computer Networks. Seeking opportunities as a Software Engineer / Full-Stack Developer.

Technical Skills

Programming Languages: C, C++, Python, R, Java, JavaScript, TypeScript

Web Frameworks: React.js, React Native, Expo, Node.js, Express.js, Spring Boot, TailwindCSS

Databases: MongoDB, PostgreSQL, MySQL

Tools: Git, GitHub, Swagger, VS Code

Core Concepts: Data Structures & Algorithms, Operating Systems, Computer Networks, OOPS, DBMS

Experiences

SDE Intern – Xelron | (Mar 2026 – Present)

- Worked on training and fine-tuning AI models to improve prediction accuracy, overall performance, and model generalization across diverse datasets.
- Assisted in optimizing model efficiency by refining datasets, improving preprocessing pipelines, and ensuring high-quality data preparation for training.
- Collaborated with the engineering team to test, validate, and evaluate model outputs while systematically reducing inference errors.
- Implemented scripts and automation tools to streamline model training, monitoring, and evaluation workflows across different development environments.
- Contributed to improving system performance, scalability, and reliability for AI-based applications deployed in real-world scenarios.

Software Engineering Intern – Investo App | (Dec 2025 – Mar 2026)

- Led complete frontend development of the company's mobile and Web investment application from scratch.
- Translated Figma designs into pixel-perfect mobile interfaces.
- Implemented onboarding workflow including Splash screen, OTP verification, role selection, and profile setup.
- Designed scalable navigation using Stack and Tab navigators.
- Built reusable modular components using TypeScript.
- Developed Mutual Funds, Wallet, Live Sessions, and Account dashboards.

Web Development Intern – CodeSoft | (Sept 2025 – Oct 2025) | (1 Month)

- Built foundational projects including Calculator, Landing Page, and Personal Portfolio.
- Strengthened core knowledge of HTML, CSS, and JavaScript.
- Practiced responsive design and layout structuring.

- Implemented interactive UI elements using JavaScript.
- Gained practical experience in Git version control and project hosting.

Projects

Brain Buddy – AI PDF Interaction Platform | React.js, Node.js, Express.js, MongoDB, Gemini AI, Cloudinary, ImageKit | Repo

- Developed an AI-powered full-stack web application enabling intelligent PDF interaction.
- Implemented PDF upload, content-based Q&A, podcast summaries, and auto-generated aptitude tests.
- Integrated Gemini AI for NLP and context-aware responses.
- Used Cloudinary and ImageKit for optimized media storage and delivery.
- Created scalable architecture with secure RESTful APIs.
- Designed modular backend structure separating controllers, services, and database layers.
- Implemented structured error handling and input validation for secure processing.
- Optimized API performance and improved user experience.
- Implemented secure authentication and protected API routes to ensure safe document processing.

Full-Stack Job Portal | React.js, Spring Boot, MongoDB Atlas, Swagger | Repo

- Developed a full-stack job portal enabling job posting and intelligent search functionality.
- Built REST APIs using Spring Boot and MongoRepository for CRUD operations.
- Implemented advanced full-text search using MongoDB Atlas Search and aggregation pipelines.
- Designed search functionality across profile, description, and technologies fields.
- Integrated custom search repository using MongoDB Java Driver.
- Used Swagger UI for API documentation and testing.
- Configured CORS for seamless frontend-backend integration.
- Structured backend using layered architecture principles.
- Tested database interactions using MongoDB Compass.

AI-Powered Resume Builder | React.js, TailwindCSS, Gemini AI, Clerk | Repo

- Built a resume generation platform ensuring ATS-compliant resumes.
- Used Gemini AI for resume content generation and keyword optimization.
- Implemented Clerk authentication for secure login and user access.
- Designed a responsive, user-friendly interface using TailwindCSS.
- Enhanced recruiter-readiness through optimized formatting.
- Implemented dynamic form handling and real-time updates.

Education

JSS Science and Technology University, Mysuru – BE in Computer Science (CGPA: 6.5)

Vision PU College, Bangalore – PCMB (88%)

SFS High School, Koppal – State Board (94.72%)